Jan. 26, 1937. P. E. FISCHER 2,068,667

RAIL STRAIGHTENING IMPLEMENT

Filed July 19, 1934

Fig. 1.

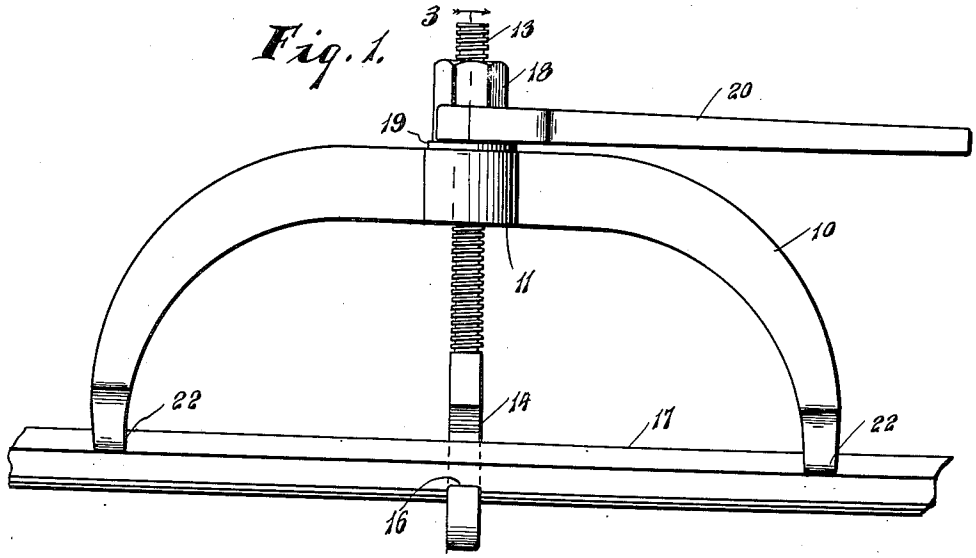


Fig. 2.

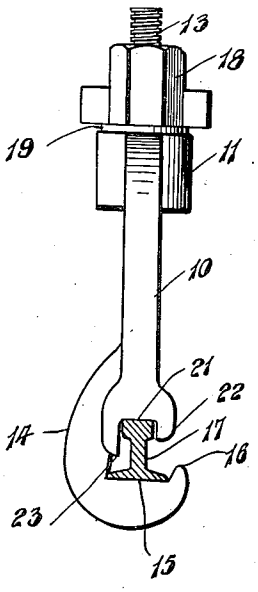


Fig. 4.

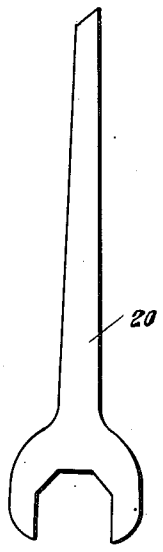
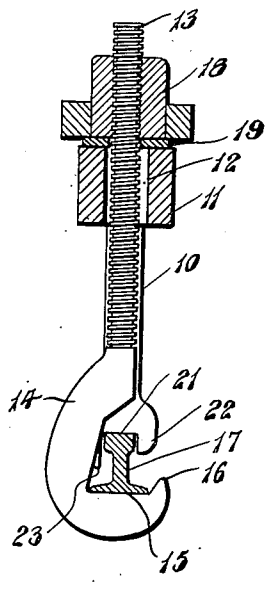


Fig. 3.



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Patented Jan. 26, 1937 2,068,667

UNITED STATES PATENT OFFICE

2,068,667

RAIL STRAIGHTENING IMPLEMENT

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Application July 19, 1934, Serial No. 736,091

1 Claim. (Cl. 153—38)

The invention relates to implements for straightening railroad rails, being particularly adapted for use in straightening the rails in mines, but that also may be used for bending or straightening bars, pipes, and the like, and that has for its principal object the provision of an implement that is reasonable in cost of manufacture, that is extremely efficient in operation, that is simple in construction, and that is of minimum weight so that it may be readily transported from place to place in the mine for operation in straightening the rails of a mine track, and as the device takes up a minimum amount of space when set up for operation may be readily used for the purpose stated.

The invention will be described in detail hereinafter and will be found illustrated in the accompanying drawing, in which

Figure 1 is a side view in elevation of the improved rail straightener showing it in position on a fragment of a railroad rail,

Figure 2 is an end view in elevation showing the rail in section,

Figure 3 is a transverse sectional view on a plane indicated by the line 3—3 of Figure 1, and

Figure 4 is a plan view of a wrench adapted for use in connection with the operation of the device.

In the drawing similar reference characters are used to designate corresponding parts in all the views.

As hereinafter stated the invention contemplates the provision of an implement that may be readily transferred from place to place along the tracks of a mine and quickly set up in position for straightening the rails, and by taking up minimum amount of space is readily adaptable to operation in restricted positions in the mine, the implement having a U-shaped base member 10 that is provided intermediate of its ends with an enlargement or boss 11 having an opening 12 therethrough to receive a threaded stem 13 of a rigid hook shaped member 14, said hook-shaped member 14 having its bill provided with a transverse flat portion 15 and its extremity with an upturned flange 16 so as to engage under the base of a railroad rail designated 17.

Mounted on the threaded stem 13 is a nut 18 that is elongated as shown so as to distribute the strain of the straightening operation over a plurality of threads on the stem and nut to prevent stripping of the threads. 19 is a washer located between the enlargement or boss 11 and the nut 18, and 20 a preferred form of wrench for use in turning the nut 18 on the stem, but obviously any other type of wrench may be used, the rigid jaw wrench as disclosed in the drawing being suggestive only of the proper tool for the purpose.

The terminals of the U-shaped member 10 are provided with recesses or notches 21 to engage the head of the rail 17, said notches 21 being defined by flanges 22 and 23, the flanges 23 being preferably longer than the flanges 22 and arranged on that side of the notches and of the base member 10 corresponding to the closed side of the hook when in position as shown, so as to provide for ready assembling and removal of the implement relative to the rail.

In operation, the notches 21 engage the head of the rail on opposite sides of a depressed portion therein, and after the hook member 14 is engaged with the rail as shown in the drawing, the rail may be bent and straightened intermediate of the notched ends of the U-shaped member 10 by screwing the nut 18 down on the threaded stem 13.

What I claim is:—

A rail straightener, comprising a U-shaped member having notches in its ends to engage remote portions of a rail and provided with an opening in its bight portion, spaced flanges on the ends of said member and defining said notches, one of each of said spaced flanges being longer than the other, the longer flanges being arranged on corresponding sides of the notches on the ends of the member, a hook slidably mounted in said opening and having a threaded stem, and a nut on said threaded stem and engaging the member to adjust the hook relatively to the notched ends thereof.

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